IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Confirmation No.: TBA

Lee, et al.

Examiner: TBA

Serial No. TBA

Docket No. 050324-1322

Filing Date: Herewith

For: LOW POWER VOLTAGE TO CURRENT CONVERTER

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexanddria, Virginia 22313-1450

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98. Listed on the accompanying form PTO-1449 are documents which may or may not be considered material to the examination of this application. These documents were made of record in a prior application filed November 21, 2000 and having serial no. 09/718,963, to which priority is claimed relative to the present application pursuant to 35 U.S.C. §120. Copies of these documents are not being provided pursuant to 37 C.F.R. § 1.98(d)(1) and (2), which provides:

- (d) A copy of any patent, publication, pending U.S. application or other information, as specified in paragraph (a) of this section, listed in an information disclosure statement is required to be provided, even if the patent, publication, pending U.S. application or other information was previously submitted to, or cited by, the Office in an earlier application, unless:
 - The application is properly identified in the information disclosure statement and is relied on for an earlier effective filing date under 35 U.S.C. §120; and
 - (2) The information disclosure statement submitted in the earlier application complies with a paragraphs (a) through (c) of this section.

The following rights are reserved by the Applicant(s): the right to establish the patentability

of the claimed invention over any of the listed documents should they be applied as reference, the

right to prove that some of these documents may not be prior art, and/or the right to prove that some

of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has

been made, or that information more material to the examination of the present application does

not exist. The Examiner is specifically requested not to rely solely on the materials submitted

herewith. The Examiner is requested to conduct an independent and thorough review of the

documents, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return a copy of the enclosed

PTO-1449 to indicate the documents have been considered.

Respectfully submitted,

THOMAS, KAYDEN, HORSTEMEYER

& RISLEY, L.L.P.

By:

Troy A Vanagelen: D

Dec No 50 947

100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948

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			U.S. PA	TENT DOCUME	NTS			
Examiner Initials	Item	Document Number	Date	Na	ıme	Class	Subclass	Filing Date If Appropriat
	1	4,931,749	6/5/99	Walters				10/17/88
	2	5,066,870	11/19/91	Kobatake				6/20/90
	3	5,233,314	8/3/93	McDermott et al.				10/13/92
	4	5,392,205	2/21/95	Zavaleta				11/7/91
	5	5,920,233	7/6/99	Denny				11/18/96
	6	5,491,439	2/13/96	Kelkar et al.				8/31/94
	7	5,629,650	5/13/97	Gersbach et al.				1/29/96
	8	5,646,563	9/30/96	Kuo				7/8/97
	9	5,692,164	11/25/97	Pantelakis				12/18/96
	10	5,703,511	12/30/97	Okamoto				10/23/96
	11	5,740,213	4/14/98	Dreyer				6/3/94
	12	5,767,736	6/16/98	Lakshmikumar et	al.			5/27/97
	13	5,870,003	2/9/99	Boerstler				10/3/97
	14	5,886,551	3/23/99	Narahara				3/25/97
	15	5,936,445	8/10/99	Babanezhad et al.				3/21/97
	16	6,011,822	1/4/00	Dreyer				4/17/97
	17	6,028,473	2/22/00	Kamei et al.				3/9/95
	18	6,028,780	2/22/00	Chang				3/12/98
	19	6,058,033	5/2/00	Williams et al.				10/8/98
	20	6,064,251	5/16/00	Park				8/27/97
	21	6,067,336	5/23/00	Peng				10/1/98
	22	6,075,406	6/13/00	Lee et al.		4		6/16/98
		OTHER DOCU	MENTS (Includ	ling Author, Title,	Date, Pertine	nt Pages, etc	:.)	

EXAMINER'S SIGNATURE:

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Examiner Initials	Item	Document Number	Date	Nan	ne	Class	Subclass	Filing Date If Appropriate
	22	6,320,426	11-2001	Shih, Her-Y		327	65	
	23	6,292,061	09-2001	Qu, Ming		327	156	
	24	6,229,345	05-2001	Kirkland et al.		327	65	
	25	6,198,320	03-2001	Boerstler, David W	/illiam	327	157	
	26	6,194,920	02-2001	Oguri, Takashi		327	563	
	27	6,172,535	01-2001	Hopkins, Michael	Clarence	327	65	
	28	5,798,660	08-1998	Cheng, Michael C.	Н.	327	563	
	29	5,751,186	05-1998	Nakao, Tomoaki		327	562	
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Austin, Russ Chmela, Todd Frank, Ram Kelkar, Ken Short, Don Strayer, Mark Styduhar, Steve Wyatt, ISSCC95/Session

DATE CONSIDERED:

31 "Digital Clocks and Latches," Ian Young, ISSCC96/February 9, 1996/Sea Cliff/8:30 a.m.

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in

6/Digital Design Elements/Paper TA 6.5

EXAMINER'S SIGNATURE:

conformance and not considered. Include copy of this form with next communication to the applicant.

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

IP SCHEDULE A

ACTIVE US PATENTS/APPLICATIONS & DISCLOSURES

Š	Granted US Patents							
4.5	STATE OF STATE							
1	DOCXT0174W	Synthetic Quadrature Generating Apparatus Granted		776,181	13-Sep-1985	4,787,058	13-Sep-19854, 787,058 22-Nov-1988	
a	DOCXT0185D	Matched Filters for Processing Related		571,586	13-Dec-199955,817,063	5,617,083	01-Apr-1987	
L	80E131	Shedded Amplifier	Granted	354 840	04-Mer-19824 454 481	454481	12-Jun-1984	-
L	82E035	Perameter-Setting Approach (Votrain		441,195	12-Nov-19824,539,536	4,539,536	03-Sep-1985	
		fr/Devices with			,		y.Tan	
	85E018	Uncompensated and Compensated GaAs Input Receivers	Granted	759,193	26-Jul-19854,703,205	4,703,205	27-0ct-1987	
_o	86E008	Third Mode Torsional E-M Resonator	Granted	646,093	07-Apr-1988 5,006,824	5,006,824	09-Apr-1991	
	90E052	Receiver Designed with Large Output Drive and Having Unique Input Protection Circuit	Granted	591,164	01-Oct-1990 5,124,578	5,124,578	23-Jun-1992	
l _o	92E030	Symmetrical Clock Crystal Oscillator Circuit	Granted	08/155,500	22-Nov-1993 5,455,542	5,455,542	03-Oct-1995	
۵	93E032	Direct Connect Radio and Antenna Assembly	Granted	233,289	26-Apr-1994 5,608,732	5,606,732	25-Feb-1997	
o o	93E067	Variable Mutti-Threshold Detection for 0.3- GMSK	Granted	307,202	16-Sep-1964 5.459,762	5,459,782	17-Oct-1995	
=	94E005	Component Insensitive, Analog Bandpass Fitter	Granted	106,328	15-Feb-1994	5,523,719	15-Feb-1994,5,523,719 04-hm-1996	
7	94E058	Method and Apparatus for Controlling the Wateup Loglo of a Radio Receiver in Sleep Mode	Granted	08/514,509	11-Aug-1995 5,845,204	5,845,204	01-Dec-1996	
2	95E002	An iterative Filtering Frequency Estimator	Granted	515,403	15-Aug-19956, 781, 250	6,781,250	02-Jun-1998	
4	95E003	An Adaptive Frequency Correction Burst Detector for the GSM Handsel System	Granted	06/537,376	29-Sep-1995[5,724,657	5,724,657	03-Mar-1998	
15	95E056	Jitter Circuit for Reduced Switching Noise	Granted	544,762	10-May-1996	5,754,601	10-May-19965,754,601 119-May-1998	

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16	95E071	Extended Time Tracking and Peak Energy In-Granted Window Demodulation for Use in a Direct Sequence Spread Spectrum System	Granted	650,868,053	08-Dec-1895,5,778,022	5,778,022	07~Jul-1998	
17	95E072	Variable Digital Automatic Gain Control in a Condless Direct Sequence Spread Spectrum Telephone	Granted	08/568,161	06-Dec-1985,5,764,689	5,764,689	09-Jul-1998	
9	95E080	Method and Apparatus for Signal Quality Estimation in a Direct Sequence Spread Spectrum	Granibo	09/348,491	06-Jan-2000 8,301,287	3,301,287	08-Oct-2001	
19	98E008	Ultra-Clean Voltage Power Supply Generator	Granted	08/892,444	14-Jul-1997/6 049,724	1 049 724	11-Apr-2000	
8	97RSS036	An LC-VCO Charge-Pump and Loop-Filter Architecture for improved Noise-Immurity in Integrated Phase-Locked Loops	Granted	09/400,509	30-Sep-19998,281,758	9,281,758	28-Aug-2001	
21	97RSS053	Timing Estimation in Mobile Communication Systems Using Parabolic Interpolator	Granted	09/163,640	30-Sep-1998 8,219,345	8,219,345	17-Apr-2001	
22	97RSS080	A Method and an Apparatus for Positioning System Assisted Cellular Radicitelephone Handoff and Dropoff	Granted	09/025,962	19-Feb-1698B,327,471	8,327,471	04-Dec-2001	
ន	97RSSQ81	Caltular Radfolelophone Having Answering Machine/Volce Memo Capability with Persinteler-Based Speech Compression and Decompression	Granted	09/026,619	20-Feb-199815,240,299 29-May-200	8,240,299	2 0-May- 2001	
77	97RSS084	A Transistor Having a Novel Layout and an Emitter Having More Than One Feed Point	Granted	08/126,301	30-Jul-1998 6,236,071	6,236,071	22-May-2001	
25	97RSS068	Voltage Upconverter for Portable Time Divisional Multiple Access Ratio	Granted	08/047,242	24-Mar-1998B,078,167	6,078,167	20-Jun-2000	
8	97RS\$100	Method and Apparatus for Automatic Gain Control With Improved Response Time and Stability	Granted	09/038,397	06-Mar-1998	8,037,834	06-Mar-1998 8,037,834 14-Mar-2000	
27	97RSS105	Universal Radlo Architecture for Low-Tier Personal Communication System	Granted	08/346,359	30-Nov-19945,648,885	5,648,685	15~Jul-1997	PCSI P036US Exhibit 2

200						200		
97RSS107		Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products	Granted	08/972,311	18-Nov-1997 6,163,706	_	19-Dec-2000	
97RSS113			Granted	08/941,468	30-8ep-19976,238,271		22-May-2001	
97RSS118		Modulation Technique for Multi-Band · Applications	Granted	09/044,281	19-Mar-1998	6,005,443	19-Mar-1998 8,005,443 21-Deo-1999	
97RSS118		RF Architecture for Cellular Dual Band Telephones	Granted	09/057,124	08-Apr-1998 8,206,675	8,208,875	27-Mer-2001	
97RSS120		fler Circuity for a Dual Band Sellular Phone	Granted	09/038,258	08-Mar-1998 B,125,271	8,125,271	28-Sep-2000	
97RSS122		em With Current Resistance of tich	Granted	08/940,630	30-Sep-1997	5,031,302	30-Sep-19976,031,302 29-Feb-2000	
97RSS128		Duathend Power Ampitier Control Using A Single Power Ampitier Controller	Granted	08/965,643	07-Nov-19078,216,012	8,216,012	10-Apr-2001	
97RSS128		Low Voltage Medium Power Class C Power Ampiffer With Precise Gain Control	Granted	09/084,114	21-Apr-19985,966,051	5,966,051	12-Oct-1999	
97RSS129		Non-Linear Constant Envelop Modulator and Granted Transmit Architecture	Granted	09/04/0,225	13-Mar-1968	8,078,626	13-Mar-1968B,078,628 20-Jun-2000	
510	97RSS151CON	Programmable Digital Modulator and Methods of Modulating Digital Data	Granted	08/330,577	27-Oct-1994 5,600,678	8/8/009'9	04-Feb-1997	04-Feb-1997 PCSI PageUS Exhibit 2
97RSS151		Ð	Grandad	07/858,397	20-Mar-1992 5,420,887	5,420,887	30-May-1985	
97RSS154		Sample Interpolator and Method of Generating Additional Samples of a Sampled Waveform Using a Programmable Sample Divider	Granked	918,941	25-Aug-1997	6,937,010	25-Aug-1987,5,837,010 10-Aug-1998	Continuation of Abandoned PCS1 Exhibit 2 case
97RSS158		Near Direct Conversion Receiver and Method Gramed for Equalizing Amplitude and Phase Therein	Gramed	08/521,588	30-Aug-1995 5,828,955	5,828,955	27-Oct-1998	PCSI P068US Exhibit 2
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20-Jan-1998 PCSI P020US1 Exhibit 2	22-Aug-1995	17-Aug-19955,757,864 26-May-1996	10-Jul-2001	29-Oct-1998	30-Sep-19956,127,900 03-Oct-2000	07-Nov-2000	24-Oct-2000	17-Oct-2000	05-Sep-2000	21-Nov-2000	16-Oct-2001	03-Apr-2001	22-Aug-1995
5,710,762	5,444,696	5,757,884	5,259,916	5,570,056	6,127,900	B, 145, 108	6,138,260	6,134,427	8,114,888	9,150,890	8,304,748	8,211,738	5,444,696
08-Jun-19955,710,762	29-Oct-19925,444,696	17-Aug-1995	06-Aug-1998 5,259,916	07-Jun-1908 5,570,056	30-Sep-1995	04-Sep-1997 B, 145, 108	10-Mar-19948,138,260	30-Sep-19988,134,427	25-Sep-1998B,114,888	30-Sep-1990 8,150,890	23-Sep-19868,304,748	30-Jan-1996 8,211,738	29-Oct-18835,444,696
08/468,374	08/145,745	08/516,197	08/892,552	08/445,088	09/163,735	08/923,722	08/038,724	09/164,168	09/160,684	00/163,798	09/158,878	09/016,195	145,745
Granted	Granted	Granked	Granted	Granted	Granted	Granted	Granted	Granted	Granted	Granted	Granted	Granted	Granted
Frame Structure Using Consecutive Stot Assignments for Mobile Communications			Method and Apparatus for Minimizing Perceptible Impect on an Interrupted Call Prior to Hand-Off	uilipliers for Law Voltage	ncy Synthesis System	/stem	e System	Using a Single Low-Noise Amplifier in a Multi-Granted Band Wireless Station	op Divider Cycling nd Communication the Seme	Mar Phone	try for a Cellular Phone		Frame Structure Using Consecutive Stat Assignments for Mobile Communications
97RSS160CON	97RSS160	97RSS162	97RSS163	97RSS167	97RSS166	97RSS179	97RSS179	97RSS194	97RSS200	97RSS201	97RSS202	97RSS209	97RSS242
Ę_	2	7	1	£	9	47	8	6,	8	5	52	23	2

55	97RSS291	Frequency Reference Compensation	Gramted	110,011/80	24-Aug-1983 5,542,095	5,542,095	30-Jul-1996	PCSI P009US Exhibit 2
8	97RSS311	Modulator and Process for Minimizing Power Consumption and Communication System Employing Same	Granted	09/161,154	25-Sep-1998 B,263,027	6,263,027	17-Jul-2001	
21	97RSS312	Method and Apparatus for Improving Modulation Accuracy	Granted	814,601/90	24-Jun-1996 8,268,618	8,268,818	31-Jul-2001	
8	97RSS323	tione With Two Power Control Circuit	Granted	09/103,697	24-Jun-1998'8,154,664	8,154,884	28-Nov-2000	
9	97RSS324	Cellular Phone With a Logarithmic Detector	Granted	09/103,899	24-Jun-19986,163,709	6,163,709	19-Dec-2000	
9	97R9S325	Dual Band Celtuar Phone With Two Power Amplifiers and a Current Detector for Monitoring the Consumed Power	Grænted	09/103,898	24-Jun-1998	6,151,509	24-Jun-1998 8,151,509 21-Nov-2000	
20	97RSS343	Power Management for a Telephone System Granted by Dynamically Adjusting Transmission Power	Granted	09/104,732	25_Jun-1988,256,476	8,258,478	03-Jul-2001	
85	97RSS347 (WCD)	System and Method for Wireless Voice and Computer Communications	Granted	796,601/60	30-Jun-1998 6,327,476	8,327,476	04-Dec-2001	
g	97RSS348	Multi-Functional Battery Management Module Granted Operable in a Charging Mode and a Battery Pack Mode	Granted	09/060,425	14-Apr-1998	8,100,870	14-Apr-1998 B,100,870 09-Aug-2000	
3	97RSS361	Variable Gain Amplifier with Gain Linear with Granted Control Voltage	Granted	DG/163,885	30-Sep-1998 8,124,761	8,124,761	28-Sep-2000	
92	97RSS393	High-Linearity, Low-Spread Variable Capacitance Array	Granted	08/081,542	19-May-1998 B, 181, 218	8,181,218	30-Jan-2001	
98	97RSS450	Power Management System for a Mobile Station	Granted	06/959,588	29-Oct-1997 6,044,069	8,044,089	28-Mar-2000	
87	97RSS451	Power Management System for a Mobile Unit Granted by intelligent Page Monitoring	Granted	09/056,572	07-Apr-1998 B,240,288	8,240,288	29-May-2001	
8	97RSS458	Celtular Telephone	Granted	086,535	14-Apr-1998	D408,398	14-Apr-1988/D408,398 20-Apr-1999	

97RSS442									
97RSS444 Method and Apparate for Enhanced Gamied GR021, 899 GPRS5445 Method Method Enrichment of the System Enrichment of Enrichment Gamied Ga	88	97RSS482	Double Balance Differential Active Ring Micen With Current Shared Active RF Input Baten	Granted	09/087,315	29-May-1998		02-May-2000	
97R3S474 Amplier Module With Two Power Amplifiers Granted 09010,242 FIRSS479 Method and Apparatus for Improving the Granted 09413,000 in the Cloud Band Coluder Phone of Chain Freedwar at Cartial Foreign of Amplifiers Granted 09413,000 in the Chain Freedwar at Cartial Foreign of Chain Freedwar at Cartial Operatus and Method for Implementing a Granted 09473,125 of STRSS236 Method for Implementing a Granted 09473,125 of STRSS236 Method and Free Signature of Freedwar for F	0	97RSS464	Method and Apparatus for Enhanced Performance in a System Employing Convolutional Decoding	Granted	09/021,898	11-Feb-1996	9,192,500	20-Feb-2001	
97R;55479 Sensitivity of an FF Receiver of Contain Frequencies Fre	1.	97RSS474	Ampitier Module With Two Power Amplifiers for Dual Band Cellular Phones	Granted	09/016,242	30-Jan-1996	6,075,995	13-Jun-2000	
8778:S440 urtegrated datery Compartment and Hippy Granted Ged773 (75) of 1978:S486 (oppstated datery Compartment and Hippy Granted Ged773 (75) of 1978:S487 (oppstates and Method for Proplementing a Granted 196701 (54) of 1978:S5526 (oppstates for Belling of Thera Among Phese Shifted Signated 196704,020 (Oppstates for Shifted Shifted Shifted 196704,020 (Oppstates for Shifted 196704,020 (Oppstates for Shifted 196704,02) (Oppstates for Shifted 196704,03) (O	2	97RSS479	Method and Apparatus for Improving the Sensitivity of an RF Receiver at Certain Frequencies	Granted	09/153,008	11-Sep-1998	6,192,228	20-Feb-2001	
PRESS465 Appearate and Method for Implementing a Granted (19/2011-64-3) PRESS467 Receiver for IP Signate (19/2011-64-3) PRESS267 Receiver for IP Signate (19/2011-64-3) Press268 Shaping Teles Auring Please Shafing Signate (19/2011-64-3) Principle Teles Auring Please Shafing Signate (19/2011-64-3) Synthesizer With On-Cipi Tunige (19/2011-64-3) PRESS018 Receiver Many On-Cipi Tunige (19/2011-64-3) PRESS018 Receiver Many Charles (19/2011-64-3)	2	97RSS480	Integrated Battery Compartment and Hinge	Granted	09/073,725	07-Mmy-1998	8,219,257	17-Apr-2001	
PRESSEA PRESEACH Receive for RF Sympas for Skarling Dismand 090709, 000 97785526 Shelped and Apparation for Skarling Dismand 090718, 428 97785520 Shelped Operation of Phase School Dismand Operation of Phase School Dismand Operation Oper	*	97RSS495	Apparatus and Method for Implementing a Low-Noise Ampititer	Granted	09/201,643	30-Nov-1998	8,275,687	14-Aug-2001	
BTRSSS20 Weeked and Appearing francism and the Appearing Street Authors of Phese Shided Signals Street Street Authors of Phese Shided Signals Shides	22	97RSS497	Receiver for RF Signals	Gramted	100,202,001	30-Nov-1998	8,298,226	02-Oct-2001	
98RSS008 Synthesizer With On-Citig Tuning and Property Greened Opt 108,647 Synthesizer With On-Citig Tuning BBRSS014 A Compord and Feet Cubie Fundion Greened Opt 148,599 Cannot Should be a series of the series of	9/	97RSS526	Method and Apparatus for Sharing Transmik Shaping Filkers Among Phase Shifted Signals	and in case of	09/164,428	30-Sep-1996	8,181,674	30-Jan-2001	
98R5S014 A Computer and Fest Cubic Function Granted 09414,599 Generator PRESSUS Record Transfer Function Generator Granted 004144,404 986SS015 Record Control of Recover Linearity Granted 004144,404 986SS015 Based on Interference Record of Record	4	98RSS009	Phase Interpolated Fractional-N Frequency Synthesizer With On-Chip Tuning	Gramled	09/106,847	01~Jul-1998	6,064,272	18-May-2000	
98RSS015 Flexible Transfer Function Cenerator Granted 204144.404 98RSS015 Intelligent Central of Recover Unerrity Granted 204144.404 98RSS134 Intelligent Central of Recover Unerrity Granted 204190, 513 98RSS134 Gentled Control of Recover Central	7.8	98RSS014	A Compact and Fast Cubic Function Generator	Granted	09/148,568	D4-Sep-1996	6,160,429	12-Dec-2000	
BGRSS134 Installegen Control of Receiver Unearity Granted DB/184,177 198RSS134 Installed on Institutional Control of Cont	2	98RSS015	Flexible Transfer Function Generator	Granted	09/144,404	31-Aug-1988	8,321,072	20-Nov-2001	
98RSS134 Uleblook of Integendent Creating and Libring Grented 198134, 1777 and Carthoop Motel for Improved Rejection land Influent System Training Speaker-Dependent Speech Recognition System and Nethod for Opnamically Verying Granted 1987SS178 System and Nethod for Opnamically Verying Granted 1987SS228 Octobing System for Power Amphiliter and Granted 1987770,029	8	98RSS058	Intelligent Control of Receiver Linearity Based on Interference	Gramted	09/160,613	24-Sep-1988	8,311,048	30-Oct-2001	
88FSSS178 System and Method for Dynamically Varying Granted 04/22/809 3 Operational Parameters of an Ampfiller Granted 08/17/0/029 88FSS202 Cooling System for Power Ampfiller and 08/17/0/029	ā .	98RSS134	Method of Independently Creating and Using a Garbage Model for Improved Rejection in a Limited-Training Speaker-Dependent Speech Recognition System		09/134,177	14-Aug-1988	9,223,155	24-Apr-2001	
98RSS202 Cooling System for Power Amplifier and Granted 09/170,029	82	98RSS178	System and Method for Dynamically Varying Operational Parameters of an Amplifier	Granted	09/222,666	29-Dec-1988	8,327,462	04-Dec-2001	
Communication System Employing the Same	8	9BRSS202	Cooling System for Power Ampitier and Communication System Employing the Same		09/170,029	13-Oct-1998	6,134,110	17-Oct-2000	

2	98RSS236	Phase/Frequency Detector with Time- Detayed inputs in a Charge Pump Based Phase Locked Loop and a Method for Enhancing the Phase Locked Loop Gain	Granted	08/363,779	29~Jul-1998	B,147,561	29-Jul-1998B,147,561 14-Nov-2000	
92	98RS9255	Phase Lock Loop Used as Up Converter and for Reducing Phase Noise of an Output Signal	Granted	09/405,749	30-Sep-1980B,255,912	8,255,912	03-14-2001	
98	98RSS258	Gated delay-locked loop for clock generation Granted applications	Granted	09/302,756	30-Apr-1999/8,206,163	8,208,183	27-Mar-2001	
87	98RSS261	source-switched or gate-switched charge pump having cascoded output	Granted	09/302,666	30-Apr-1989B,160,432	8,160,432	12-Dec-2000	
88	98RSS287	Fully Integrated Broadband RF Voltage Amplifier with Enhanced Voltage Gein and Method	Granted	09/405,798	27-Sep-1988 8,285,944	8,285,944	24-Jut-2001	
88	98RSS288	Low Noise Low Power Charge Pump System Granted for Phase Lock Loop	Granted	09/405,752	27-Sep-19998,215,363	8,215,363	10-Apr-2001	
8	BBRSS271	System and Process for Shared Functional Block Communication Transceivers With GPS Capability	Granted	08/256,450	23-Feb-1994b, 208, 844	B,208,844	27-Mar-2001	
16	98RSSZ80	Power Amplifier Driver System for Wireless Handset	Granted	09/328,927	09-Jun-1999 6,339,361	6,339,361	15-Jan-2002	
92	98RSS285	Power Amplification Using A Direct- Upconverting Quadrature Mixer Topology	Granted	09/318 482		9,307,894	23-Oct-2001	
63	96RSS286	Envelope Peak and Trough Limiting to Improve Amplifier Efficiency and Distortion Characteristics	Granted	09/318,528	25-May-1889 5,242,975	8,242,975	05-Jun-2001	
ā	98RSS304	Phase-Locked Loop Having Temperature- Compensated Bandwidth Control	Granted	09/314,898	18-May-1999 6,211,743	6,211,743	03-Apr-2001	
96	98RSS307	Log-Domain Filter Having a Vadable Dynamic Range Window	Gramed	09/322,401	28-May-19996,262,623	6,262,623	17~Jul-2001	
					The second secon		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	DATE OF THE PARTY

98RSS319		ı				1000	֡
	Six Inverting Amplifier Transconductance Stage and Methods for its Use	Granted	09/385,225	27-Aug-1990-0,181,655		Z0+eb-Z001	
96RSS336	ending a VCO	Granted	08/498,378	03-Feb-2000 8,204,734	8,204,734	20-Mar-2001	
99RSS005	Apparatus for Improving RF uning in as RF Test Socket	Grantled	985'096/80	26-Jul-19908,227,876		08-May-2001	
99RSS015		Granted	09/410,216	30-Sep-19996,255,906	8,255,906	03-Jul-2001	ć
99RSS025		Granded	626,878,826	20-Aug-1999	6,252,528	28-Jun-2001	
99RSS042	Differential Oscillator		756,885/60	25-Aug-1989	8,249,190	19-Jun-2001	
98RSS0 08	Data Transfer Using Pro- r ID Class FSK Signaling		09/328,048	08-Jun-1996	8,304,642	16-00-2001	
0228	pperatus for Code Error	Granted	08/131,078	01-04-1993	5,491,700	13-Feb-1996	PCSI P013US Exhibit 2
98RSS354	is and Method for Increasing Data Ssion Rate Over Wireless acation Systems Using Spectral	Gramled	090'660	28-AA-1993	5,386,590	31-Jen-1995	
99RSS355	us and Melhod For Increasing Data ssion Rate Over Wireless nication Systems Using Spectral	Granted	147,148	03-Nov-1983	5,507,033	0 9.Apr. 1996	
89RSS356	us and Method for Compensating for nduced Non-Linear Distoration in a Deta Communication System	Granted	198,085	17-Feb-1994	5,533,048	02~Jul-1996	
99RSS357	affon	Granted	09/495,993	01-Feb-2000	8,259,752	10-Jul-2001	
		System and Method For Variable Gain Code-Checoder Checoder Code-Checoder Code-Checoder Code-Checoder Checoder Checoder Code-Checoder Checoder Ch	Distortion System and Method For Variable Gain System and Method For Variable Gain Coder-Decoder Differential Oscillator For For Enter Interest Using Pro- Interest Collect ID Cleas FSK Signaling Interest Collect ID Cleas FSK Signaling Method and Apparatus for Code Enter Correction Correction Department of Code Enter Correction Department of Code Enter Communication Systems Using Specifial Stagging Apparatus and Method For Interesting Data Transmission Rate Cover Weleses Communication Systems Using Specifial Stagging Apparatus and Method For Interesting Data Transmission Rate Correction Systems Using Specifial Stagging Cognition Cognition Systems Using Specifial Method For Interesting Specifial Stagging Apparatus and Method For Interesting Specifial Stagging Apparatus and Method for Interesting Specifial Stagging Apparatus and Method for Interesting Specifial Method of Interesting Specification Systems Method of Interesting Specification New Method of Interesting Interference Carrobiation IDMA Receiver	Distortion System and Method For Variable Gain System and Method For Variable Gain Coder-Decoder Differential Oscillator For For Enter Interest Using Pro- Interest Collect ID Cleas FSK Signaling Interest Collect ID Cleas FSK Signaling Method and Apparatus for Code Enter Correction Correction Department of Code Enter Correction Department of Code Enter Communication Systems Using Specifial Stagging Apparatus and Method For Interesting Data Transmission Rate Cover Weleses Communication Systems Using Specifial Stagging Apparatus and Method For Interesting Data Transmission Rate Correction Systems Using Specifial Stagging Cognition Cognition Systems Using Specifial Method For Interesting Specifial Stagging Apparatus and Method For Interesting Specifial Stagging Apparatus and Method for Interesting Specifial Stagging Apparatus and Method for Interesting Specifial Method of Interesting Specification Systems Method of Interesting Specification New Method of Interesting Interference Carrobiation IDMA Receiver	Distortion System and Method For Variable Gain Coder-Decoder Different and Method For Variable Gain Coder-Decoder Existing Call and Code Signature Existing Caller ID Cleas FSK Signalup Defined and Apparatus for Code Error Correction Caller ID Cleas FSK Signalup Method and Apparatus for Code Error Correction and Method for Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Spectral Stagging Apparatus on Method For Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Spectral Shaping Apparatus and Method For Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Spectral Shaping Communication Systems Using Spectral Shaping Apparatus and Method For Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Spectral Shaping Franchiscon Rate Over Wheeless Communication Systems Using Spectral Shaping Franchiscon Rate Over Wheeless Communication Systems Using Spectral Shaping Franchiscon Rate Over Wheeless Communication Systems Using Spectral Natural Industry Original Industry Originated Interpretation System Natural Industry Originates Indeference Carrobalation Started Industry Originates Indeference Carrobalation Natural Industry Originates Indeference Carrobalation Natural Industry Originates Indeference Carrobalation	Distortion System and Method For Variable Gain Coder-Decoder Different and Method For Variable Gain Coder-Decoder Existing Caller 10 Cass FSK Signaling Existing Caller 10 Cass FSK Signaling Defined and Apparatus for Code Error Correction Apparatus and Method for Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Sportral Shipping Apparatus and Method For Increasing Data Franchiscon Rate Over Wheeless Communication Systems Using Sportral Shipping Apparatus and Method For Increasing Data Franchiscon Rate Over Weeless Communication Systems Using Sportral Shipping Apparatus and Method for Increasing Data Franchiscon Rate Over Weeless Communication Systems Using Sportral Shipping Apparatus and Method for Compunication System Apparatus and Method Non-Linear Distoration is a Method of Infrastration System Nathod of Infrastration System	Distortion Observation Observ

100 9/RSS372 (FTD) 110 9/RSS208 (FTD) 111 9/RSS208 112 9/RSS208 113 9/RSS103 114 9/RSS103 114 9/RSS104							
	Compensation Technique Using MOS Cepacitance	Granted	09/163,789	30-Sep-19986,087,896	8,087,896	11-Jul-2000	
	CMOS Electrostatic Discharge Protection Circuit With Minimal Loading for High Speed Circuit Applications	Granted	09/163.675	30-Sep-1968B,292,046	8,292,048	18-Sep-2001	
	ial, Multiple Input Recture	Granted	08/752,016	19-Nov-19985,845,848	5,945,848	31-Aug-1999	
112 97RSS000 113 97RSS103 114 97RSS460 114 97RSS480	A System and Method for a Monolithic Directional Microphone Array	Granted	08/974,874	20-Nov-1997/0,192,134	8,102,134	20-Feb-2001	
	Method and Apparatus for Sensing as Audio Signal That is Sensitive to the Audio Signal and insensitive to Background Noise	Granted	06/920,846	2 B-Aug- 1997/8,072,882		06-Jun-2000	
	Self-Test and Status Reporting System for Microcontroller-Controlled Devices	Granted	09/347,889	06-Jul-1999 B, 104, 304	8,104,304	15-Aug-2000	
Ti lin	Convolution Decoding Terminated by an Error Detection Block Code with Distributed Party Bits	Granted	08/021,896	11-Feb-1888 6,199,190	6,199,190	06-Mer-2001	
	ge Dual-Modulus Prescaler Circuit ged Pseudo-Differential Logic	Granted	09/163,862	30-Sep-1998	8,157,693	30-Sep-1998B,157,693 05-Dec-2000	
-	Interlaced Master Slave ECL. Pip Flop	Granted	09/405,964	30-Sep-1999B, 191,629	6,191,629	20-Feb-2001	
117 DOCXT0105T	Planar HBT-FET Device	Granted	949,901	23-Sep-19925,250,828	5,250,828	05-Oct-1993	
118 83E050	Small Size, High Speed GaAs Data Latch	Granted	727,958	26-Apr-19854,707,808	4,707,808	17-Nov-1987	
119 00CXT0191W	Method and Apparatus for Dual Demodulation of Mobile Channel Signals	Granted	484,712	28-Jun-1985 6,517,530	6,517,530	14-May-1998	
120 95E082	Echo Canceling Method and Apparatus in a Communication Device	Granted	08/588,843	07-Dec-1995.5,933,494	5,933,484	03-Aug-1999	
121 97RSS161	Dual Source for Constant and PTAT Current	Granted	565,424	30-Nov-1995[5,774,013	5,774,013	30-Jun-1898	PCSI PO46US Exhibit 2
122 95E062	Frequency Error Compensation for Direct Sequence Spread Spectrum Systems	Granted	08/566,095	08-Dec-19955,732,111	5,732,111	24-Mar-1998	

8	97RSS155	Unique Word Detector and Method for Detecting a Unique Word with one of Several Windows Offset Time	Granted	08/472,121		5,524,127	5,524,127 04-Jun-1988	PHS
137	137 97RSS155	Phase detector and a method determining Granted the phase of received PSK symbols	Granted	08/289,061	11-Aug-18945,610,949	5,610,949	11-War-1997	PHS
-138 -138	87RSS157	Method and Apparatus of Frequency Generation for use With Digital Cordless Telephone	Granted	06/013,625	04-Feb-1993	5,722,040	04-Feb-19935,722,040 24-Feb-1998	SH.
139	97RSS159	ADPCM Coding and Decoding Techniques for Granted Personal Communication Systems		08/181,609		5,815,222	04-Feb-19945,815,222 25-Mar-1997	PHS
140	97RSS185	Multiple Amerina Home Base for Digital Cordless Telephones	Granted	08/573,287	15-Dec-19955,696,798	5,696,798	09-Dec-1997	PHS
14	97RSS295	Nethod and Apparatus for Frequency Synthesization in Digital Condless Telephones	Granted	08/131,210	01-Oct-1983 5,526,527	5,526,527	11-Jun-1986	PHS
(42	B7RSS454	Avoiding Interference From a Potentially Interfeding Transmitter in a Wireless Communication System	Granted	08/163,972	30-Sep-1998 B,256,477	8,258,477	03-70-2001	PHS

00CXT0143W	00CXT0143W Soft-Decision Classifier	Granted	986,364	00-Dec-1992/BOE		361,379	5,361,379 01-Nov-1894
00CXT0095W	Resistive Planar Ring Double-Balanced Mixer	Granted	576,755	04-8ep-1980BOE		5,125,111	23-Jun-1982
DOCXT0096N (PTD)	Large Array MMC Feedthrough	Granted	940,094	08-Jun-1990 BOE		5,132,648	21-Jul-1882
00CXT0098T	Stress-Free Chemo-Mechanical Polishing Agent for II-VI Compound Seniconductor Single Crystals and Method of Polishing	Granted	787,154	04-Nov-1981 BOE		157,876	5,157,876 27-0ct-1992
DOCKT0101T	Technique for Doping MOCVD Grown Crystalline Meterfals Using Free Radical Transport of the Copent Species	Granted	956,940	19-Feb-1991 BOE		5,202,283	13-Apr-1993
OGCXT0106T	Technique for Doping Mercary Cadmium Tellunds MOCVID Grown Crystalline Materias; Using Free Redical Transport of Elemental Indium and Apparatus Therefor	Granted	857,692	19-Feb-1991 BOE		5,306,660	26-Apr-1994
00CXT0113W	Moving Vehicle Classifier with Nonlinear Mapper	Granted			BOE	337,257	5,337,257 09-Aug-1994
00CXT0084T	Isolated Low Power Thyristor Gate Drive Circuit	Granted	740,465	03_Jun-1985BOE	П	631,472	4,631,472 23-Dec-1986
00CXT0133W	Large Time-Bandwidth Chirp Pulse Generator	Granted	102,924	06-Aug-1993/BOE		428,381	5,428,381 27-Jun-1995
ODCXT0140N	OCXT0140N Moving Vehicle Classifier With Rerative December Granted Estimator	Granted	76,077	11~Jun-1993 BOE		367,475	5,367,475 ZZ-Nov-1994
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US Pending Patant Applications filed with USPTO

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CASE NO		Total Control		A	
00CXT0018W	VCO Tuning Curve Compensated Charge Pump Current Synthesizer	Г	09/675,889	29-Sep-2000	
00CXT0040W	Power amplifier with provisions for varying operating voltage based upon power emplifier output power	Pending	09/782,680	23-Feb-2001	
00CXT0045W	Multi-Level Power Ampiller	Pending	00/880,288	13-Jun-2001	
00CX70070W	JIC Capacitor Trimming Using Fuses	Pending	10/121,366	11-Apr-2002	
00CXT0072W	Longitudinally-Coupled Saw Filter Enhanced Frequency Selectivity	Pending	09/545,232	07-Apr-2000	
00CXT0283W	System for Closed Loop Power Control Using a Linear or a Non-Linear Power Amplifier	Pending	09/650,967	30-Aug-2000	
DOCKT0308W	a Secondary Phase- en Amplitude	Pending	08/850,831	30-Aug-2000	
ODCXT0310W	System for Allowing a TDMA/CDMA Portable Transceiver to Operate with Closed Loop Power Control	Pending	09/865,820	20-Sep-2000	
90CXT0323W	Mutiple Step Switched Translation Loop for Power Amplifier Feedback Centrol	Pending	09/896,696	21-Sep-2000	
DOCXT0325W	Dual-Feedback Translation Loop	Pending	09/568,577	21-Sep-2000	
DOCXTO350W	Dynamically Blased Power Amplifiers	Pending	09/616,285	27-Mar-2001	
00CX1037/W	Amelik cells Controlled Blas Circuit for Ampiklers	Pending	00/817,688	28-Mar-2001	
00CXT0517W	8	Pending	09/677,162	02-001-2000	-
00CXT0521W	A Charge Pump Having Reduced Switching Noise	Pending	09/718,963	21-Nov-2000	
00CXT0523W	Fast Settling Charge Pump	Pending	09/716,615	21-Nov-2000	
00CXT0526W	Fast-Acquisition Phase-Locked Loop	Pending		01-Nov-2001	
00CXT0608W	Power Amplifier Circuit for Providing Constant Blas Curent Over a Wide Temperature Range	Pending	09/122,772	27-Nov-2000	
00CXT0618W	Current Mirror Compensation System for Power Amplifiers	Pending	09/772,717	30-Jan-2001	
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< 8 0	A Stable Epitaxial Emitter Ballast for Heterojunction Bipolar Transistors (HBT's) by Modulated Emitter Cap Doping Profile	Pending	(0/115,317	(0/115,317 03-Apr-2002	
3.3 1	A Low Current and High Performance BIFET Low Noise Ampititer (LNA)	Pending	10/057,098	23~Jan-2002	
20	Method and Appendus for Signal Quality Estimation in a Direct Sequence Spread Spectrum	Pending	566,330	06-Dec-1995	
	Echo Canceling Method and Apparalus in a Communication Device	Pending	09/220,123	23-Dec-1888	
	12 Chip Coded Spread Spectrum Modulation for Direct Conversion Radio Architectures in a Digital Cordiess Telephone	Pending			
	intermediate Frequency Amplifier Circuit for Use in Receive and Transmit Modes	Pending	08/752,767	20-Nov-1996	
	nsing an Audio Signal That al and Insensitive to	Pending	09/481,726	27~Jan-2000	
	Multiple Haif-Burst Phase Rotation for High Frequency Demodulation	Pending	09/164,534	30-Sep-1998	
	Power Amplifier Seturation Prevention Method, Apparatus and Communication System Incorporating the Seme		09/152,439	14-Sep-1998	
	Device and Process for Coupling Multi-Band Transmitters Pending and Receivers and Communication System Employing Same		7.160,677	11-00-2000	
	Using a Low Frequency Timer to Restore Timing to a High Frequency Timer	Pending	09/164,432	30-Sep-1998	
	A System and Method for Extending the Range of a Base Pending Unit		09/072,198 10/034,41,1	31-Jul-2000 21-Duc-2000	
	Autometic GSM Mobile Power	Pending	09/161,611	25-Sep-1998	
	Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products		09/672,235	Z7-Sep-2000	
	CONTRACTOR OF SAME AND ADDRESS OF THE PARTY	The State of State of Street, Street, or other	Street, or other Designation of the last o	The state of the s	The state of the s

97RSS108	Cellular Telephone Keypad/Acoustic Isolation Device/LCD	Pending	09/408,986	09/408,995 29-Sep-1999	
97RSS115	Phone Architecture Utilizing a Single ceive Switch	Pending	09/013,235	26-Jan-1996	
97RSS118CIP (WCD)	RF Architecture for Cellular Dual Band Telephones	Pending	09/388,257	31-Aug-1998	
97RSS124	Method and System for Efficiently Transmitting Energy from an RF Device	Pending	09/361,865	27-Jul-1988	
97RSS125	Wide Frequency Range Couplers and Detectors for Power Detection in Multiple Frequency Band Systems	Pending	DB/U81,702	20-May-1998	
97RSS127	Integrated Power Management Module	Pending	09/060,428	14-Apr-1998	
97RSS178		Pending	09/409,484	30-Sap-1999	
97RSS178/1		Pending	10/033,203	26-Dec-2001	
97RSS203	Device, System and Method for Low Noise Radio Frequency Transmission	Pending	09/160,690	25-Sep-1998	
97RSS205	Device and Process for Coupling Multi-Band Transmitters Pending and Receivers and Communication System Employing Same		09/100,646	25-Sep-1996	
	System and Process for Shared Frequency Source Multi-Pending Band Transmitters and Receivers	Pending	09/203,645	01-Dec-1998	
97R5S329	Switchable High-Low Side Mixer for the Translational IC for Dust Mode Application	Pending	09/205,036	20-Apr-1999	
97RSS331	First Party Signalling for Call Walting Calling Number Identification (CWCID) System	Peading	08/823,447	04-Sep-1997	
97RSS336	Direct Conversion Time Division Duplex, Radio, Direct Sequence Spread Spectrum Cordless Telephone	Pending	09/107,733	30-Jun-1986	
		Pending	09/325,107	03-Jun-1999	
	System and Method for Wireless Voice and Computer Communications	Pending	09/300,582	27-Apr-1899	
97RSS347	tod for Wireless Voice and Computer	Pending	08/974,769	09-Oct-2001	

			270 079500	30 000 40000
	Method for Programming a Radio Transceiver	Abandoned	712011/10	See Land
	Adaptive Wireless Communication Receiver	Pending	09/163,797	30-Sep-1998
	gital Control	Pending	09/046,080	23-Mar-1996
	enagement System for e Mobile Station	Pending	09/499,911	06-Feb-2000
	stection	Published	09/761,259	16-Jan-2001
97RSS481 E CASE D ABANDONED	Enhanced Keypad Control for Portable Communication Dovice	Pendiag	09/073,724	07-May-1998
	External Connector and Battery Extension Pack for a Portable Communication Device	Pending	08/137,184	20-Aug-1998
		Pending	09/084,534	26-May-1999
	Full-Duplex Speakarphone With Wireless Microphone	Pending	09/144,842	31-Aug-1996
97RSS518 Tr		Pending	09/410,220	30-Sep-1990
	A Compact and Fast Cubic Function Generator	Pending	09/706,483	03-Nov-2000
96RSS024 M	Method of and Apparatus for Adaptetion of an Echo Canceller in a System With Multitasking	Pending	09/128,362	03-Aug-1998
98RSS031 A	A Method and Apparatus for Dynamically Switching Between Speech Coding Techniques	Pending	08/153,631	15-Sep-1998
2.4	rap and Patch us, and Space	Pending	09/232,881	15-Jan-1900
98RSS089 S)	System and Method for Communication Parameter Determination	Pending	09/157,209	18-Sep-1988
BRSS072 A	Apparatus and Maihod for Improving Power Control Loop Pending Linearity	Pending	09/161,014	25-Sep-1998

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98RSS088	Multi-Line Recording Device Having Reduced Processing Pending and Storage Requirements		09/183,283	29-Sep-1998	
98RSS097	Wireless Communications Device Altowing a Soft Handod Fending Procedure in a Mobile Communications System		09/342,165	28-Jun-1989	
98RSS112		Pending	09/159,328	23-Sep-1986	
98RSS121	d Spectrum Modulation and pectrum Modulation Cordioss	Pending	06/137,198	20-Aug-1998	
98RSS165	to Generate a Secure Wireless Link Botween a nd Basestation in a Cordiess Phone System by Wired Connection	Pending	09/216,380	16-Dec-1998	
98RSS177	Power During Communications	Pending	09/205,523	03-Dec-1998	
98RSS179	System and Method for Selecting Amplifiers in a Communications Device	Pending	09/222,063	29-Dec-1998	
98RSS180	tectively interconnecting tions Device	Pending	08/222,872	29-Dec-1996	
98RSS160	System and Method for Selectively interconnecting Amplifiers in a Communications Device	Pending		23-04-2001	
98RSS169	ps for Direct	Pending	09/382,882	25-Aug-1899	
98RSS201	System and Process for Shared Functional Block CDMA is and GSM Communication Transceivers	Pending	09/296,315	23-Apr-1999	
98RSS207	Wave Based Wreless Link	Pending	09/216,066	18-Dec-1988	
98RSS257		Pending	08/302,754	30-Apr-1999	
98RSS276	a Cellular Radio	Pending	09/408,754	30-Sep-1999	
98RSS280	Amplifier Driver System for Wireless Handsel	Pending	09/328,027	08-Jun-1899	Contract and Contract and Contract of Cont
98RSS283			09/392,825	09-Sep-1999	

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98RSS291	Mixer Circuit with On-Chip Transformer	Pending	08/371,311	10-Aug-1999	
98RSS321	Dual Tune Input-Integrated VCO on a Chip	Pending	09/708,921	08-Nov-2000	
98RSS347	Performance Improvement of Internet Protocols Over Wireless Connections		109,375,607	17-Aug-1988	
98RSS350	Programmable Frequency Divider	Pending	00/370,090	06-Aug-1999	
98RSS350	onics	Pending	09/821,833	30-Mar-2001	
98RSS351	AW) Filters on a		09/455,108	06-Dec-1999	
98RSS396	Multi-Band Transceiver Having Multi-Slot Capability	Γ	09/387,038	31-Aug-1990	
99RSS012	System and Method for Cordless Telephonic Communication	Pending	08/756,039	05-Jan-2001	
99RSS025	System and Method For Variable Gein Coder-Decoder	Pending	09/845,840	30-Apr-2001	Contract of the Contract of th
	Multi-Band Filter System For Wireless Communication Receiver		09/330,646	11~Jun-1989	
99RSS032	Officrential Oscillator	Pending	09/675,239	29-Sep-2000	
99RSS037	System and Method for Receiving Analog and Digital Signals	Pending	09/383,122	25-Aug-1999	
99RSS057	A Method to Combine the Detection of Stutter Dial Tone and VMWI FSK Signals Integrated Within a Telephone	Pending	08/299,202	23-Apr-1989	
99RSS065	Direct Conversion Receiver	Pending	09/260,918	02-Mar-1990	
99RSS085	Direct Conversion Receiver	Г	09/386,885	31-Aug-1998	
99RSS069	Using Pre-existing Caller ID nuctures		99,383,968	16-Jul-1998	
99RSS077	Local Area internet Radio Receiver/Transmitter	Pending	09/407,149	28-Sep-1990	
99RSS078	System for Confrolling a Class D Amplifter		09/814,198	21-Mar-2001	
99RSS082	System and Process for Supporting Multiple Wireless Standards With a Single Circuit Architecture	Pending	09/410,136	30-Sep-1998	
99RSS083	System for Using Adaptive Circuitry To Improve Performance and Provide Linearity and Dynamic Range on Demand	Pending	09/881,932	15-Jun-2001	

99RSS085	Avoiding Interference from a Potentially Interfering	Donding	081 100	12. San. 1000	The state of the s
99RSS085	Wheless Communications System Utilizing Directional Wireless Communication Device	Pending	09/621,110	29-Mar-2001	
99RSS086	Analog to Digital	Pending	09/410,205	30-Sep-1999	
99RSS086	or and related frequency translator	Pending	09/281,058	02-Mer-1999	
99RSS096	preprocessor and related frequency translator		956,986,60	27-Aug-1999	
99RSS102	th	Pending	39/427,041	19-04-1988	
99RSS116	System and Method for Achleving Wireless Communications Coverage in a Local Area	Pending	09/409,297	29-Sep-1998	
99RSS130	nunication	Pending	908'886'808	15-Sep-1990	
99RSS136	Simple Dual Band Multi Time Stot Receiver Anchitecture	Pending	09/392,355	08-Sep-1999	
99RSS138			09/515,538	29-Feb-2000	
99RSS161	A Novel Technique for Generation of Phase/Frequency Modulated Signals	Peading	09/398,011	14-Sep-1989	
99RSS172	A Batun Circuit for Combining Differential Power Amplifier Outputs	Suppled	09/386,863	31-Aug-1999	
99RSS174	Filter and Method for Suppressing Unwanted introduced by the Filter	Pending	09/863,848	18-Sep-2000	
99RES166	ple Phase Spirting for ter	Pending	09/506,302	17-Feb-2000	
99RSS213	stem for an RF Front-	Pending	09/811,082	18-Mar-2001	
99RSS232	Smart Current System for Dynamically Varying the Operating current of a Frequency Source in a Receiver	Pending	09/793,744	28-Feb-2001	
99RSS297	System of and Method for Reducing or Eliminating the Unwanted Sideband in the Output of a Transmitter Comprising a Quadrature Moduletor Followed by a	Pending	09/514,501	29-Feb-2000	

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	Translational Loop				
99RSS301	figh-Speed Asynchronous Data	Pending	09/550,852	17-Apr-2000	
99RSS305	Power Amplifier With Integrated Quarter Wave mer/combiner Circuit	Pending	09/761,100	16-Jan-2001	
99RSS310	ducing or Eliminating the al Derived from the Output	Pending	09/515,633	29-Feb-2000	
99RSS313	System for Associating User Selectable Information in Wireless Devices	Pending	09/842,601	26-Apr-2001	
99RSS316	Power Amplifier Saturation Detection and Compensation	Pending	09/651,801	30-Aug-2000	
99RSS356			190'7'5081	08-Aug-2000	
99RSS359		Pending	09/792,816	23-Feb-2001	
99RSS386	nplifer	Pending	08/656,440	10-Oct-2000	
99RSS397	ability	Pending	09/871,517	31-May-2001	
99RSS404	e (o	Pending	09/858,729	11-Sep-2000	
99RSS405	System For Eight Phase 45 Degree Polyphase Filter With Pending Amplitude Matching	Pending	105,666,501	16-Sep-2000	
99R3S40e	Polyphase Tuning for Phase Calibradon	Pending	09/823,289	30-Mar-2001	
99RSS410	Stacked Core Half-LO Mixer	Pending	08/868,879	25-Sep-2000	
99RSS422	Temperature Compensation Module	Pending	09/712,771	13-Nov-2000	
99RSS426	Trap and Patch System for Virtual Replacement of Defective Votatile Memory Cells	Pending	09/671,401	27-Sep-2000	
99RSS429	Zero-Overhead Symbol Rate Adaptation System for OVSF Code	Pending	08/718,965	22-Nov-2000	
99RSS461	Programmable Stent Ringing System for Communication Pending Systems	Pending	09/650,543	30-Aug-2000	
99RSS468	System and Apparatus for a Direct Conversion Receiver Pending and Transmitter		09/621,407	21-Jul-2000	

99RSS133	Apparatus and Method for Connecting a Cellular Felenhone to e Universal Sorial Bus	Pending	09/312,064	13-May-1099	
99R5S339 (PTD)	miconductor Device	Pending	09/675,023	28-Sept-2000	
GORSS385 (PTD)	d Semiconductor Device	Pending	09/580,323	26-May-2000	
DOCXT0289T (PTD)	Modified HBT Collector Dasign for Increased Robusiness Pending	Pending	10/034,880	28-Dec-2001	
90RSS143 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/519,214	3-Mar-2001	
99RSS081 (PID)	Critical Path Adaptive Power Control	Pending	09/814,921	22-Mar-2001	
97RSS475	Polarization-Adaptive Artenna Transmit Diversity System Pending	Pending	09/103,417	24~Jus-1998	
97RSS477	Using Channel Loading Statistics to Determine Whether to Search for a New Channel in a Wirdess Communication System	Pending	04/201,078	30-Nov-1996	
98RSS173	Multing Method for ADPCIN Coded Speech Signel Without Pending Performance Citical Threshold Comparisons	Pending	09/234,243	20-Jan-1989	
98RSS284	Efficient Accurate Controller for Envelope Feedforward Fower Amplifiers	Pending	09/409,616	30-Sep-1999	
99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999	
99RSS292	Device Independent Interface for Embedded Telephone Applications to a Wireless Spread-Spectrum Link and Audio Processor	Pending	09/479,127	07-Jan-2000	
ODCXTO430IAV (PID)	00CXTW30I/W System and Melhod for Processing Audio and Video Data Pending (PID)	Pending	09/831,511	03-Aug-2000	
00CXT04311/W (PID)	00CXT0431(NV System and Method for Processing Audio and Video Data Frending (PID)	Bulgued	09/631,508	03-Aug-2000	
15/1	otion Compensated Videocoding	Pending	09/828,535 06-Apr-2001	06-Apr-2001	

(PTD)		Commence of the last	7	
98RSS004	99RSS004 System and Method for Adaptive Multirate (AMR) Vocoder Pending (paired,013 15-May-1990	99/080,013	15-May-1998	
(Mindspeed)		-		
99RSS284	99RSS284 Speaker-Phone System Change and Douthe-Talk Pending 198675,291 [29-Sep-2000]	19/675,291	29-Sep-2000	
(PCD)	Detection			

Innovation Disclosures Assigned to Outside Counsel in Progress

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DOCXTODYOW	00CXT0070VMC Capacitor Trimming Using Fuses	₩CD	Assigned	
00CXT0284W	00CXT0264W/Integrated Auto-Ceibration of On Chip VOOs by Winner Selection Algorithm, and Sensitivity Adjustment by Coarse and Fine Varactor Turing	WCD	Assigned-FBD	
00CXT0522W	00CXT0522WEDIfferential-Phase-Locked-Loop Method of Non-Constant Envelope Modulation	WCD	Assigned	10/307,330
00CXT0616W	0CXT0816WAdaptive Matching System	COM	Assigned	
00CXT0617W	IOCXT0617WIDesensitizing Blas Circuit to Prevent RF Interaction	WCD	Assigned	
00CXT0620W	OCXT0820VMMethod for Determining Quality of Dielectric Laminated Substrate	MCD	Assigned	
00CXT0641W	OCXT0641Wintegrated on Chip VCO Cattoration Agonthm to Extend VCO Tuning Renge	WCD	Assigned	
01CXT0001W	HCXT0001WNJsing Triming Hooks to Integrate a Circuit that can Calibrate the VCO Independently Each Time at Circuit Power-up	WCD	Assigned	
Q1CXT0002W	11CXT0002WMMonthor the Varactor Capacitance of the Process Thru Process Control Monitor	wco	Assigned	
01CXT0164W	MCXT0164WSupply & Blas Enhancements for Conexant Power Amplifiers. Second Generation PMIC/PA	wcp	Assigned-FBD	10/167,550
97RSS398	An Current Compensation Method in Replica Circuit Where the Product of the Transconductance and Resistance is Kept Constant	OSW MCD	Assigned	
99RSS079	Method for Implementing a Radio Transceiver with Digital Signet Processing	WCD	Assigned	
99RSS128	Capacitor Calibration for Current-Tuned Filters	WCD	Assigned	
89RSS200	A Multiple Cascaded DS Officel Connection Scheme is Proposed For Use in Connecting Offices Careed by Multiple Cascaded High Gain Buseland Stages in Transcervers.	WCD	Assigned	
99RSS246	Switchable Gain Low Noise Amplifier for DCMA/AMPS Applications	WCD	Assigned	
99RSS409	Gain Calibration for Linearity-On-Demand Systems	WCD	Assigned	
DOCXT0254W	DOCXT0254WiPower Amp Control Driver Providing Over-Current Protection and	WCD	WCD Assigned-FBD	

CSM/CDS Transmittee with Sunchmone Appliance Feed	91CXT0294 CMOS/BICMOS Subhamonic Mixer for Improved Noise, Power W	Use of NIV as Seed Layer for Electroplated Backside Metalizations.				
DICKTOPRAME	01CXT0294 W	01CXT0355				

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00CXT0524WF eedback-and-Feedboward Closed-Loop Power Control for Amplitude-Modulated Signals 02CXT0004W/Software Defined Trensmitter for WCDMA, GSM, EDGE, TDMA

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Innovation Dis	Innovation Disclosures on Hold Status
4.00 miles	The second of th
00CXT0052W	High Performance Dual Tone Detections in Presence of St Interference
00CXT0054W	00CXT0054W Geted U-lon Bettery Charger
00CXT0262W	Power Amplifier Saturation Control Scheme
	A GFSK/GMSK Detector with Enhanced Reception Perfort Cochannel Interference and A WGN Channels
DOCXT0471W	Voltage Regulator Based on Switchable Capacifor Array of Polgas LDO*
	Variable RF Gain Power Amplifler Driver
00CXT0538W	Programmable Dual Power Amplifier Drivers for CDMA Ap
00CXT0685W	00CXT0685W A FET/HBT Blas Circuit for Low Voltage Wireless Handset
00CXT0899W	00CXT0699W High Efficiency Adaptable Power Amplifier
D0CXT0787W	DC Offset Correction Technique for a Direct Convension B Receiver
00CXT0773W	A Design Technique for the Thermal Stabilization of Wireld Amplifiers
DOCKTO796W	

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00CXT0773W	A Design Technique for the Thermal Stabilization of Wireless Power IWCD Amptitlers		CBI-PIOH		
DOCXT0796W	Phase Detector Based Upon Look-Up Table	WCD	Hold-FBD		
DOCXT0798W	Fast Response Low if Filter Using Differential Peak Detectors	φQV	Hold-FBD		
DOCXTOBOSW		WCD	Hold-FBD		
DOCXT0807W	Resistor Calibration Algorithm	QQ/	Hold-FBD		
01CXT0015W	Calibration of Device Using a Linear PA	₩CD	Hold/Assigned		
01CXT0017W	Optimum Doherty Topology for Broad Bandwidth	WCD.	Hold/Assigned	-	
01CXT0083W	New Self Oscillating AM Modulator	QQ.	Hold-FBD		
DICKTOIOOW	Linearized Split-Ballasting Technique for Power Amplifiers	VCD	CHIPPOH		
01CXT0123W	Dynamically Tuned Embedded Anlenna	QQ QQ	Hold-FBD		
01CXT0156W	11CXT0156W An Algorithm for Removing Unwanted DC Offset from the Desired Signal at the GSM Receiver	WCD	Hold-FBD		
D1CXT0167W	31CXT0167W Detection of Strong Unwanted Interfering Stonats in Direct	WCD	Hold-FBD		

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	Conversion Receiver for GSM			-	
01CXT0188W	RF Power Splitter/Quadrature Phase Shifter Circuit	WCD	Hold-FBD		
01CXT0199W	Dynamic Parameter Setting Based on Surrounding Environment for Low-Complexity Speech Recognition	MCD	-told-FBD		
01CXT0233W	e Requirement in a DCR	dow.	Hold-FBD/Assigned	19/12, 259	Combined w01CXT0Z36W
01CXT0247W	A New Method and Architecture on the Efficient Hardware Implementation of Forward and Backward Recursive Computation	WCD	Hold-FBO		
01CXT0249W		MCD	Hold-FBD		
01CXT0250W	ren/Deinterleaver Design for the Turbo Decoder stein	WCD	Hold-FBD		
01CXT0251W	A Method for Modifying the Saturation Point of a Power Amplifier for MCD improved Linearity	WCD	Hold-FBD		
01CXT0274W	for WCDMA	COM	Hold-FBO		
01CXT0295W	iques for Use in Switching Regulator ipply	WCD	Hold-FBD		
D1CXTG306W	Adaptive Linearity Control for 3G DCR Handset Radio	WCD	Hold-FBD		
01CXT0311W	DICXT0311W Method for Linearizing VCO Gain	mcD.	Hold-FBD		
01CXT0315W	NSWR Protected Blas Cliculii for Power Amplifiers in Handset Applications	WCD	Hold-FBD		
DICKT0317W	A Novel Madular Solution to Connected Word Recognition with Reduced Computational and Memory Requirements Suitable for Hand-Held Devices	WCD	Hold-FBD		
01CXT0329W	Improving Water Yield During Wafer Sorbe and Break by Adding a Protective Film at Die Comers	WCD	Hold-FBD		
01CXT0344W	DICXT0344W An Unproved Output Matching and Combining Circuit for Doberty Power Amplifiers	WCD	Hold-FBD		

D1CXT0353W	01CXT0353W Fighty Accurate 45 Signal Generation with Application to Sub-	WCD	QB-J-Pio+		
OZCXTOOD3W	02CXT0003W Switchable VCO Performance in a Time-Division Duplex Communication Device	СЭМ	Hold-FBD		
02CXTD005W	O2CXT0005W Varying VCO Performance as Receiver Signal Level Changes	WCD	Hodd-FBD		
99RSS387	System for Manufacturing a Stacked Plate Capacitor Having an Interconnect Metal Plate	WCD	Hold-FBD/Assigned		
99RSS423	Improvements to Linearization and High Efficiency is Power Amplifiers	MCD	Hold-FBD/Assigned		
99RSS424	Linearization Improvement in Pas using Spitt Stage Blas	WCD	Hold-FBD/Assigned		
99RSS488	Blue Tooth VO Saving Front End Architecture and Device	Q.	Hold-FBD/Assigned	_	
01CXT0329W	01CXT0329W Improving Water Yield During Water Scribe and Break by Adding a IWCD Protective Film at Die Comers.	O MCD	Hold-FBD		

Innovation Disclosures/CLOSED Status

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99RSS484	Bandgap Regulator Using Capacitive Charge Pumping	WCD	CLOSED
00CXT0251W	Symmetrically-Driven Oscillator with Vertical Structure	WCD	CLOSED
00CXT0823W	Power Amplifier Having Tunable Blas Ports	WCD	039013
00CXT0633W	Noise Coupling Reduction Scheme in Dual Fractional-Minteger-N Frequency Synthesizer	WCD	CLOSED
00CXT0835W	Quantization Noise Reduction Delta-Sigma Fractional-N Frequency Synthesizer with Oxidia Frequency Doubler	aow	CLOSED
00CXT0636W	Improved Modulus Control Method in Frequency Synthesizers with an WCD Embedded D File-Flop	WCD	CLOSED
00CXT0799W	NCXT0799W Feedforward LNA/Mixer Switched Gain Block Architecture	MCD	CLOSED
OOCXTO809W	Figh Q Digital Veractor	WCD	CLOSED
01CXT0038W	1CXT0038W A CMOS RF Programmable Driver for Bluetooth Applications	WCD	CLOSED
01CXT0154W	1CXT0154W Dynamic Calibration of a Block in a CSM Power Ampliesr Centrol PCAC Loop with Application to a Block that Converts the Linear Scale to Log Scale	WCD	CLOSED
01CXT0299W	Active Temperature Compensated RF Power Detector	WCD	CLOSED
01CXT0306W	New Phase Detection and Lock Circuit for Clock/Freq Synthesis	COM	CLOSED
01CXT0310W	A PLL and Clock independent VCO Tuning Calibration Algorithm	WCD	CLOSED
01CXT0342W	1CXT0342W An Algorithm for Automated Receiver Static Sensitivity Maasurement WCD	WCD	CLOSED

Innovation Disclosures not yet ranked

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98E042 Current Limiting Low impedance Active Bias Circuit for Power Amplifiers No Rank P Lau

OrCXT025siW (PTD)
Optimized Layout for Power Amptifier Amays to Reduce Peak Junction Temperature
Optimized Layout for Power Amptifier Amays to Reduce Peak Junction Temperature

01CXT0354W (PTD) MCM Construction Using Capped Buried Vias for Heat Transfer and Lower Inductance

No Rank

A New BIFET Gilbert-cell Mixer No Rank 02CXT0007W (PTD)

02CXT0011W Audio-Nedeo Synchronization to Support Streaming in UATS Nutlimedia Messaging Service (AMMS) No Pank

OCCYTOOZOW Integration of an implanted Lateral PNP with a Double Hetero-Junction NPN in an Existing InGePIGAAS HBT Process Technology

02CXT0022W

Method for Forming a Compact R-C-R By-pass Network for Device Baltasting No Rank

02CXT0025W Programmable 8/9 and 8/17 High Frequency Prescaler with a Optimized Supply Current No Pogramma

02CXT002SW A Layour Technique Reducing Bipolar Transistor External Base Rasistance A Layour Technique Reducing Bipolar Transistor External Base Rasistance

02CXT0030T

Design of a Lateral Metal Insulator Metal Capachor in a Semiconductor Metal Process to Meet Density and Shotling Rules No Rank

02CXT0040W Optimized Double Heterostructure Bipoter Transistor Design No Rank

OCOCTOGA IV A Technique to Efficiently Albicate Computational Resources in a Digital Communication System No Rank

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